

MAINTENANCE PLANNING GUIDELINES

01/2014

ACTIVITY: Roadway & Bridge Safety Features (R227)
MAJOR & MINOR

ACTION: Traffic Barriers (Concrete)
B. Repair

DEFINITION: The time and expenses incurred for installing and maintaining concrete traffic barriers along the roadway.

PURPOSE: The repair of cast-in-place concrete traffic barrier.

SCHEDULING: Minor damaged areas may be scheduled in groups. Extensively damaged sections should be repaired the first normal working day with temperatures above 40°F.

J	F	M	A	M	J	J	A	S	O	N	D
A	E	A	P	A	U	U	U	E	C	O	E
N	B	R	R	Y	N	L	G	P	T	V	C

RECOMMENDED EQUIPMENT:

- Boom Truck and/or Loader
- Dump Truck
- Air Compressor/Drill
- Concrete Mobile
- Concrete Mixer
- Concrete Saw
- Chop Saw
- Cutting Torch
- Traffic Control Equipment; (See EPG [616.23 Traffic Control for Field Operations](#))

RECOMMENDED PROCEDURE:

1. Contact Dig Rite and others to mark utilities.
2. Place traffic control devices as needed.
3. Clean broken concrete surface or use concrete saw to square up the broken area.
4. Replace damaged rebar.
5. Oil and set forms.
6. Apply bonding compound to existing surface of old concrete.
7. Mix and place 7 sack mix of concrete (DO NOT USE DURACAL).
8. Finish and apply curing compound.
9. Clean work area.
10. Remove traffic control devices.
11. Remove forms after 4 days or when desired strength is reached.

RECOMMENDED MATERIAL:

- Paraffin Oil (paraffin base)
- Bonding Compound
- Cement, Sand, Rock, Water
- Curing Compound
- Concrete Accelerator
- Ready-Mix Concrete

SAFETY: Watch for traffic in adjacent lanes. Refer to the [Comprehensive Safety Program sharepoint portal](#). Wear all appropriate PPE. Refer to the [Risk Based Assessment](#) for additional information.

OTHER CONSIDERATIONS: Replace any damaged or missing traffic control devices.

REFERENCES: Missouri Standard Specifications for Highway Construction; Section [617](#)